2. Primary energy is the total ment used in the production of heat and power.

It is deswich from solich fruits, naturale recolarity from solich fruits. I muster worker it was included in it was included in a secondary of economic development.

MEMORANDUM FOR: Director of Central Intelligence

THROUGH:

Deputy Director/Intelligence

SUBJECT:

Primary Energy Production in the Sino-Soviet

Bloc and the Free World

This memorandum is in response to your request for comparative data on the growth of primary energy production

in the Sino-Soviet Bloc and the Free World.

2. Louis the next fire george the 3 2. Sino-Soviet Bloc plans call for 2 higher rate of

growth in the production of energy than in the Free

World. By 1960, the Bloc production of energy will rise to about

30 percent of the amount to be received by the Free World as production, In 1960 if will wiccom to about 40 percent Despite the relative increase, the gop between the Bloc anothe Free world exceeds

will not decrease. In feet the Free World passenny energy

Bloc energy output will be slightly larger in 1960 than in 1955.

production will encuase 15,200 trilling Blue Blow Blow production, the They the gap will be production, will be that of the Free tree

World, is primarily dependent upon solid fuels. By 1960m.

Bloc production of solid fuels, which amounted to about 58

products. as Blow production of petrolum incurres. bewere the importance of solid freel is delle

percent of the output of the Free World in 1955, will increase to about 78 percent of the output foreseen for the Free Werld. However by 1960, solid fuels are expected to supply about 75 percent of total Bloc energy production compared with about 81 percent in 1955. This declire to flate the Grude oil and natural gas will become relatively more important as a source of Blue energy. In 1960 they will be account for 25 percent the source of about one quarter of total Bloc energy as compared with 18 percent today. Energy produced by the Bloc from these sources in 1960 will be about 16 percent of that to be produced by the Free World, compared with only 10 percent today. 5. In 1955 hydro-checked plants contributed a very small part to the total world production of primary energy, a 9.5 one percent to the Sino-Soviet Bloc total and 2 percent to the Free World total. These shares will not change significantly by 1960. 6. Nuclear energy produced electricity will not affect significantly the output of power in 1960. The consumption of electricity nuclear programs of the US and USSR in 1960

Approved For Release 2001/04/27: CIA-RDP79T01049A001300170007-9 (still will exceed the contribution made to the national energy plouts powered with neclear ficel. The USSR has announced 1960 god of from 2, the 200 of 2500,000 million kilowatts of melear snarry capacity, which depositing these promy plants could supply unevaluated technical factors could yield a morimum of 20 billion kilowatt hours of electricity annually. Under these percent of Soviet electric conditions, over six would be supplied from nuclear energy in 1960. Announced US plants provide for only 0.8 million kilowatts about one half of one percent of the ferencest total US the electrical energy output forcast for 1960 The USSR, having produced 58 percent of the Bloc's

7. The USSR, having produced 58 percent of the Bloc's total energy output in 1955, will increase this share to 62 percent in 1960. Conversely, the US share in the Free World sup output will drop very slightly and will amount to about one

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half of the Free World total in 1960.

8. The attached table presents detailed data on the

regionalx production of primary energy by principal categories.

The charts present these data graphically.

OTTO E. GUTHE Assistant Director Research and Reports

STATINTL

415/2**8011 (EF Jan**-**3**6)

MEMORANDUM FOR: Director of Central Intelligence

THROUGH:

Deputy Director/Intelligence

SUBJECT:

Primary Energy Production in the Sino-Soviet

Bloc and the Free World

1. This memorandum is in response to your request for comparative data on the growth of primary energy production

preduced draw solid feels, petrolium, and water preser.

During next five years.

world. By 1960, the Bloc production of energy, will rise to about

Bloc energy production in 1955 was of free World and will use by 1960 to compared to about 30 percent in 1955. The absolute difference, the product of the relation converse that gap will increase when the product of the Free World exceeds

Bloc energy output will be slightly larger in 1960 than in 1955.

3. Soviet Bloc energy production, unlike that of the Free World, is primarily dependent upon solid fuels. By 1960m, Bloc production of solid fuels, which amounted to about 58

percent of the output of the Free World in 1955, will increase to about 78 percent of the output foreseen for the Free World.

However, by 1960, solid fuels are expected to supply about

75 percent of total Bloc energy production compared with about

81 percent in 1955, where it is a while differ.

- 4. Crude oil and natural gas will become relatively more important as a source of Bloc energy. In 1960 they will be the source of about one quarter of total Bloc energy as compared with 18 percent today. Energy produced by the Bloc from these sources in 1960 will be about 16 percent of that to be produced by the Free World, compared with only 10 percent today.
- 5. In 1955 hydro-electric plants contributed a very small part to the total world production of primary energy, & 0.5 percent to the Sino-Soviet Bloc total and 2 percent to the Free World total. These shares will not change significantly by 1960.
- 6. Nuclear energy produced electricity will not affect significantly the output of power in 1960. The consumption of electricity by nuclear programs in the US and USSR in 1960

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still will exceed the contribution made to the national energy supply by these programs.

Announced US plants provide for only 0.8 million kilowatt capacity by 1960. This is equivalent to about five billion kilowatt-hours annually, or about one half of one percent of the forecast total US 1960 electrical energy output.

7. The USSR, having produced 58 percent of the Bloc's total energy output in 1955, will increase this share to 62 percent in 1960. Conversely, the US share in the Free World MMP output will drop very slightly and will amount to about one

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half of the Free World total in 1960.

8. The attached table presents detailed data on the regionalx production of primary energy by principal categories.

The charts present these data graphically.

OTTO E. GUTHE Assistant Director Research and Reports

STATINTL

RR/C/N: djs/x3011 (31 Jan 56)

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MEMORANDUM FOR: Director of Central Intelligence

THROUGH:

Deputy Director/Intelligence

SUBJECT:

Primary Energy Production in the Sino-Soviet

Bloc and the Free World

1. This memorandom is in response to your request for comparative data on the growth of primary energy production in the Sino-Soviet Bloc and the 2 X. Sino-Soviet Bloc plans call for a higher rate of Free Works.

growth in the production of energy than is foreseen for the West. By 1960, the Bloc production of energy will rise to about 40 percent of the amount to be produced by the West, as compared to The absolute amount, however, by about 30 percent in 1955. which the energy output of the Free World exceeds Bloc energy output will be slightly larger in 1960 than in 1955.

Soviet Bloc energy production, unlike that of the Free World, is primarily dependent upon solid fuels. By 1960, Bloc production of solid fuels, which amounted to about 58 percent of the output of the Free World in 1955, will increase to about 78 percent of the output foreseen for the Free World.

The dependence of the Bloc on solid fuels, however, will decline

However, by sold feels are Lightly, and 1960, it is expite expected that they will to

Support only 75 percent of total Bloc energy production rather

than about 81 percent in 1955, and liquid

as a source of Bloc energy. They will become the source of about one-quarter of total Bloc energy in 1960 as compared with 18 percent today. Energy produced by the Bloc from these sources in 1960 will be about 16 percent of that to be produced by the Free World, Compared with 18 compared with 18 percent of that to be produced by

re World output.

- In 1955 hydro-electric plants contributed a very small part to the total world production of primary energy, 0.5 percent to the Sino-Soviet Bloc total and 2 percent of Free World total.

 These shares will not change significantly by 1960.
- 6. Nuclear energy produced electricity will not affect significantly the output of power in 1960. The consumption of electricity by nuclear programs in the US and USSR in 1960 with still will exceed the contribution made to the national energy supply by these programs. Thexesse

The USSR has announced a 1960 goal of from 2 to 2.5
million kilowatts of nuclear energy capacity, which-depending
on unevaluated technical factors-could yield as much as 20

Approved For Release 2001/04/27 : CIA-RDP79T01049A001300170007-9 billion kilowatt-hours of electricity annually. Conditions force 6 per cent of Soviet output, of electrical powers in 1960 would be increased by seven or eight percent if this goal, which will require the highest priority, is achieved.

Announced US plants provide for only 0.8 million kilowatt capacity by 1960. This is equivalent to about five billion kilowatt-hours (annually), or about one half of one percent of the forecast total US 1960 electrical energy output.

The USSR, having produced 58 percent of the Bloc's total 7. energy output in 1955, will increase this share to 62 percent in 1960. Conversely, the US share in the Free World output will drop very slightly and will amount to about one half of the Free World total in 1960.

8. The attached table presents detailed data on the regional production of primary energy by principal categories. The charts present these data graphically. Assistant Director Research and Reports

Distribution,: Addressee

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